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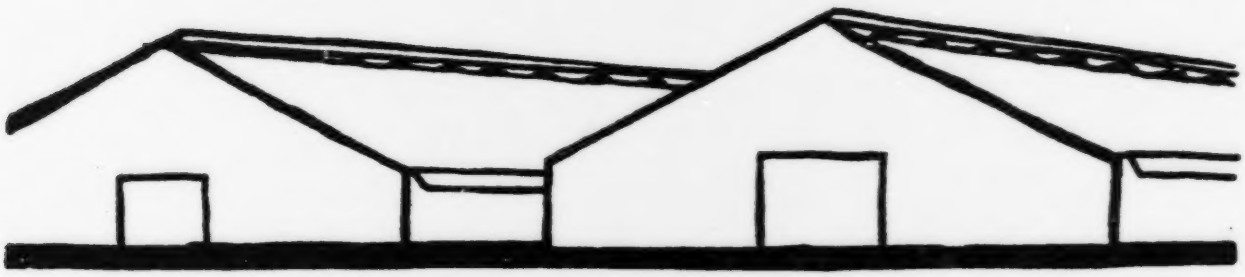
GREENHOUSE VEGETABLE STATISTICS 1987

Production Areas, Yields and Returns for Ontario



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ECONOMICS INFORMATION

REPORT NO. 88-04

GREENHOUSE VEGETABLE STATISTICS

Production Areas, Yields and Returns

for Ontario, 1987

by

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INTRODUCTION

Although greenhouse vegetables are grown in all areas of Ontario, the major producing areas are located in the southern part of Essex county, the Bradford marsh, and the Niagara-Hamilton area. Greenhouse vegetable producers in Ontario market their produce through the Ontario Greenhouse Vegetable Producers' Marketing Board. This board has divided the greenhouse vegetable producing areas of Ontario into four districts as outlined in the footnote to Table 1.

The statistics as presented in this report were obtained through the cooperating of the offices of the Ontario Greenhouse Vegetable Producers' Marketing Board located at Leamington and at the Ontario Food Terminal building in Toronto.

The information in each table of this report was prepared by the author using records as well as annual production and sales figures made available by the above offices of the Marketing Board. Although errors may occur, the author believes that the statistics in this report presents an accurate summation of the greenhouse vegetable production in Ontario as served by the Marketing Board.

PRODUCTION AND TYPE OF PLANTINGS

Information is provided on the production area under both plastic and glass and the number of growers by district in Ontario for 1988.

Each spring, the Ontario Greenhouse Vegetable Producers' Marketing Board conducts a survey among producers to determine their projected plantings of tomatoes and cucumbers under both glass and plastic. In some areas of Ontario, producers will either increase or decrease their greenhouse vegetable production area due to the production of bedding plants and/or flowers. Therefore, the area per grower by District includes only that part of the growers' greenhouse operation devoted to the production of tomatoes and/or cucumbers. The production of other vegetables such as lettuce and peppers are also not recorded.

TOMATO AND CUCUMBER YIELDS AND VALUES
(Tables 1 to 3)

The yields and gross values represent the total amounts received for all grades of tomatoes and cucumbers sold. This information is recorded separately for District 1, with combined marketings shown for Districts 2, 3 and 4.

Yields per plant and per square foot for all fall grown tomatoes and seedless cucumbers consist also of those spring crops which are left in the greenhouse with production carrying over past August 31. The production from these spring grown crops are reported along with the regular grown fall crops (Tables 4 to 14).

DISTRIBUTION OF FUEL USE

Information on the distribution of fuel used by each District was last surveyed in 1983. From 1985 to 1988, information on the distribution of fuel used in District 1 only was determined. The survey shows the fuel used as a main source of heat, with some growers switching due to fluctuating prices. Growers usually have a stand-by heat source which may or may not be the same fuel as indicated as being used for the main source of heat (Table 15).

Table 1. - Greenhouse Vegetable Production Area by Districts in Ontario, Spring 1988

Production District*	No. of Growers	Greenhouse Area			
		Glass	Plastic	Total Area	Area/Grower
		- square feet -			
District 1	147	7,115,605	4,080,700	11,196,305	76,165
District 2	35	613,760	256,700	870,460	24,870
District 3	69	1,028,200	917,885	1,946,085	28,204
District 4	19	586,960	482,200	1,065,160	56,061
TOTAL	270	9,308,765	5,737,485	15,078,010	55,844

*Production districts as defined by the Ontario Greenhouse Vegetable Producers' Marketing Board for growers who indicated to the Board survey that they would be producing greenhouse-grown tomatoes and/or cucumbers during the spring of 1988 are as follows:

District 1 - Essex, Kent, and Lambton Counties

District 2 - Brant, Elgin, Middlesex, Oxford Counties and the Norfolk part of the Regional Municipality of Norfolk-Haldimand

District 3 - Regional Municipalities of Niagara, Hamilton-Wentworth, and the Haldimand part of the Regional Municipality of Norfolk-Haldimand

District 4 - Regional Municipalities of Halton, Peel, York and Durham and the Counties of Simcoe and Wellington

Table 2. - Projected Plantings, Tomatoes and Seedless Cucumbers by Production District of Ontario, Spring 1988

Production Area	Tomatoes		Seedless Cucumbers		Total Tomatoes	Total Seedless Cucumbers
	Glass	Plastic	Glass	Plastic		
	- square feet -					
1*	3,604,926	2,521,670	3,339,040	1,408,225	6,126,596	4,747,265
2	606,360	224,700	7,400	32,000	613,760	256,700
3	590,200	355,465	438,000	562,420	945,665	1,000,420
4	460,100	17,000	122,860	465,200	477,100	588,060
All Areas	5,261,586	3,118,835	3,907,300	2,467,845	8,163,121	6,592,445

Source: The Ontario Greenhouse Vegetable Producers Marketing Board

* It is estimated that over 300,000 square feet of production area in District 1 is growing other vegetable crops such as lettuce, peppers, regular cucumbers, etcetera.

Table 3. - Distribution of Greeenhouse Vegetable Acreage by Number of Growers and Production Area per Grower, District 1, Spring, 1988

Acreage Range	Growers Reporting		Greenhouse Area		
	Number	Percent of Total	Total	Percent of Total Area	Area per Grower
acres	#	%	acres	%	sq. ft.
0 - .25	3	2	10,625	X	3,542
.26- .50	14	9	235,000	2	16,786
.51- .75	11	8	282,500	3	25,682
.76-1.00	21	14	792,000	7	37,714
1.01-1.25	21	14	992,300	9	47,252
1.26-1.50	15	10	904,300	8	60,287
1.51-1.75	11	8	796,200	7	72,382
1.76-2.00	9	6	741,000	7	82,333
2.01-3.00	29	20	3,265,380	29	112,599
3.01 & over	13	9	3,177,000	28	244,385
TOTALS	147	100%	11,196,305	100%	76,165

District 1 - Essex, Kent and Lambton Counties

X = less than 1/2 of one percent.

Table 4. - Yields and Values of Greenhouse Tomatoes in District 1, 1961 to 1987[a]

	Spring		Fall	
	Production	Value	Production	Value
Year	lbs.	$	lbs.	$
1987	27,755,076	22,055,480	196,422	113,275
1986	27,191,933	19,919,178	114,210	75,379
1985[b]	19,048,232	14,775,229	487,802	237,773
1984	22,058,691	17,554,138	490,909	247,353
1983	21,285,107	16,696,866	1,393,230	710,123
1982	21,340,528	14,909,687	2,259,943	1,075,976
1981	20,775,328	12,582,529	1,289,212	731,695
1980	20,319,368	12,102,095	1,889,506	874,774
1979	20,040,445	12,928,737	2,380,679	1,139,530
1978	21,448,579	11,892,823	2,382,905	1,050,789
1977	20,600,401	10,014,647	2,254,749	1,058,301
1976	20,566,250	8,879,676	2,279,499	1,043,511
1975	16,640,111	8,718,716	2,296,483	938,292
1974	17,489,078	8,041,988	2,511,405	1,004,243
1973	14,400,473	5,438,121	3,798,292	997,972
1972	15,822,850	5,194,152	4,776,743	1,066,291
1971	14,750,993	4,750,498	4,749,158	1,260,370
1970	14,927,029	4,294,502	3,620,792	864,684
1969	11,595,157	3,640,140	4,305,319	1,239,878
1968	8,539,022	2,941,763	3,397,605	911,174
1967	7,506,238	2,169,962	5,750,000	2,278,977
1966	9,074,071	2,114,259	6,250,000	1,187,500
1965	7,267,011	1,765,884	6,239,700	1,116,906
1964	6,355,510	1,544,389	6,059,850	1,193,790
1963	4,893,471	1,096,138	5,516,808	1,031,643
1962	4,103,515	1,058,707	3,893,265	646,282
1961	3,349,693	857,521	3,291,380	490,416
Average:				
1981-85	20,901,577	15,303,690	1,184,219	600,584
1976-80	20,595,009	11,163,596	2,237,468	1,033,381
1971-75	15,820,701	6,428,695	3,626,416	1,053,434
1966-70	10,328,303	3,032,125	4,664,743	1,296,443
1961-65	5,193,840	1,264,527	5,000,200	895,807

[a]Values represent total amounts received for all grades sold of red and pink type tomatoes.

[b]Spring tomato crop reduced due to hail storm that destroyed or greatly reduced many crops on May 30, 1985.

Table 5. - Yields and Values of Greenhouse Cucumbers in District 1, 1961 to 1987[a]

Year	REGULAR CUCUMBERS		SEEDLESS CUCUMBERS			
	Spring		Spring		Fall	
	Production	Value	Production	Value	Production	Value
	doz.	$	doz.	$	doz.	$
1987	No Crop Grown		1,802,029	12,955,332	75,937	562,267
1986	No Crop Grown		1,883,066	12,964,144	90,271	531,072
1985[b]	8,270	36,683	1,550,296	10,404,013	85,526	556,372
1984	28,626	108,666	1,813,070	11,428,144	56,450	305,304
1983	21,348	96,624	1,667,854	11,040,600	34,233	149,733
1982	32,876	107,385	1,644,469	8,784,543	57,132	309,808
1981	120,151	398,276	1,437,504	7,928,208	42,920	230,495
1980	141,668	414,313	1,279,374	6,447,567	21,843	70,671
1979	241,498	684,035	1,234,744	5,820,176	30,674	95,574
1978	244,281	757,795	872,474	4,648,206	12,503	54,362
1977	400,440	1,051,945	766,687	3,385,974	92,836	300,435
1976	616,059	1,374,007	619,431	2,452,490	63,032	277,309
1975	690,319	1,813,333	443,833	1,881,852		
1974	913,486	2,016,985	262,391	952,944		
1973	1,312,988	2,412,027	170,420	605,817		
1972	1,177,315	2,095,129				
1971	1,315,126	2,315,751				
1970	1,316,346	1,851,180				
1969	1,857,929	2,339,004				
1968	2,227,498	3,046,814				
1967	2,278,977	2,655,008				
1966	2,297,839	3,507,191				
1965	2,730,357	3,221,821				
1964	2,434,626	2,872,859				
1963	2,324,735	2,417,724				
1962	1,706,544	1,826,002				
1961	1,587,482	1,650,981				
Average:						
1981-85	42,254	149,527	1,622,639	9,917,102	55,252	310,342
1976-80	328,789	856,419	954,542	4,550,883	44,178	159,670
1971-75	1,081,847	2,130,645				
1966-70	1,995,718	2,679,859				
1961-65	2,156,749	2,397,877				

[a]Values represent total amounts received for all grades of regular type and seedless cucumbers.

[b]Spring cucumber crop reduced due to hail storm that destroyed or greatly reduced many crops on May 30, 1985.

Table 6. - Average Values Received for Greenhouse Tomatoes and Cucumbers in District 1, 1961 to 1987

Year	Average value Tomatoes*			Average value Cucumbers*			
				Regular	Seedless		
	Spring	Fall	Spring & Fall	Spring	Spring	Fall	Spring & Fall
	- cents/lb. -			- dollars/dozen -			
1987	79.5	57.7	79.3	--	7.19	7.40	7.20
1986	73.3	66.0	73.2	--	6.88	5.88	
1985	76.3	48.7	76.8	4.44	6.71	6.50	
1984	79.6	50.4	79.0	3.80	6.30	5.41	
1983	78.4	51.0	76.8	4.53	6.62	4.37	
1982	70.0	47.6	67.7	3.27	5.34	5.42	
1981	60.6	56.8	60.3	3.32	5.52	5.37	
1980	59.6	46.3	58.4	2.92	5.04	3.24	
1979	64.5	47.9	62.7	2.83	4.71	3.12	
1978	55.4	44.1	54.3	3.10	5.33	4.40	
1977	48.6	46.9	48.4	2.63	4.42	3.24	
1976	43.2	45.8	43.4	2.23	3.96	4.34	
1975	52.4	40.9	51.0	2.19	4.24		
1974	46.0	40.0	45.2	2.21	3.63		
1973	37.8	26.3	35.4	1.84	3.55		
1972	32.8	22.3	30.4	1.78			
1971	32.2	26.5	30.8	1.76			
1970	28.8	23.9	27.8	1.63			
1969	31.4	28.8	30.7	1.26			
1968	34.4	26.8	32.3	1.37			
1967	28.9	19.0	24.6	1.16			
1966	23.3	19.0	21.5	1.30			
1965	24.3	17.9	21.3	1.18			
1964	24.3	19.7	22.1	1.18			
1963	22.4	18.7	20.4	1.04			
1962	25.8	16.6	21.6	1.07			
1961	25.6	14.9	20.3	1.04			
Average:							
1981-85	73.2	54.7	72.2	3.54	6.11	5.62	
1976-80	54.2	46.2	53.4	2.60	4.77	3.61	
1971-75	40.6	29.0	38.5	1.97			
1966-70	29.4	27.8	28.9	1.34			
1961-65	24.4	17.9	21.2	1.11			

*Values represent average gross values received from all grades marketed as shown in Table 5 for tomatoes (Red and Pink), regular (Burpee and Mark III) and seedless cucumbers.

Table 7. - Yields and Values of Greenhouse Tomatoes for District 2, 3, and 4, 1971 to 1987*.

Year	Spring		Fall	
	Production	Value	Production	Value
	lbs.	$	lbs.	$
1987	4,555,020	4,498,148	1,235,160	1,042,022
1986	3,968,520	3,611,353	1,039,860	887,377
1985	3,571,100	2,642,614	808,960	614,810
1984	2,571,660	2,463,650	1,104,100	752,126
1983	2,526,840	2,116,083	820,540	500,529
1982	2,222,180	1,988,851	710,120	426,072
1981	4,247,620	2,726,972	969,500	559,402
1980	3,947,740	2,502,867	1,277,420	655,316
1979	3,873,500	2,386,076	1,134,120	559,121
1978	4,200,410	2,310,226	1,389,060	583,405
1977	4,890,130	1,843,569	923,010	441,199
1976	4,582,790	2,032,422	1,342,160	574,444
1975	4,733,510	2,404,623	1,259,840	479,999
1974	5,441,660	2,187,547	1,630,780	632,743
1973	5,189,290	1,961,522	1,862,150	541,886
1972	4,943,350	1,646,136	1,746,960	511,859
1971	4,539,510	1,502,578	1,225,470	370,092
Average:				
1981-85	3,027,880	2,387,634	882,640	570,588
1976-80	4,298,914	2,215,034	1,213,154	562,697
1971-75	4,969,464	1,940,481	1,524,562	499,514

*Values represent average gross values received for all grades marketed for production Districts 2, 3 and 4, as defined by the Ontario Greenhouse Vegetable Growers' Marketing Board.

Table 8. - Average Values Received for Greenhouse Tomatoes for Districts 2, 3 and 4 - 1971 to 1987.

Year	Average Value per Pound of Tomatoes		
	Spring	Fall	Spring and Fall
	- cents per pound -		
1987	99.0	84.4	95.7
1986	91.0	85.3	89.8
1985	74.0	76.0	74.4
1984	95.8	68.2	87.5
1983	83.7	61.0	78.2
1982	89.5	60.0	82.4
1981	64.2	57.7	63.0
1980	63.4	51.3	60.4
1979	61.6	49.3	58.8
1978	55.0	42.0	51.8
1977	37.7	47.8	39.3
1976	44.4	42.8	44.0
1975	50.8	38.1	48.3
1974	40.2	38.8	39.9
1973	37.8	29.1	35.8
1972	33.3	31.1	32.2
1971	33.1	30.2	32.5
Average:			
1981-85	78.9	64.7	75.7
1976-80	51.5	46.4	50.4
1971-75	39.1	32.8	37.6

Table 9. - Yields and Values of Greenhouse Seedless Cucumbers, Districts 2, 3 and 4 - 1971 to 1987*

Year	Spring		Fall	
	Production	Value	Production	Value
	doz.	$	doz.	$
1987	584,450	4,898,244	236,904	2,189,014
1986	516,683	4,040,461	217,093	1,670,035
1985	469,629	3,418,899	184,167	1,326,002
1984	455,190	2,931,424	168,064	1,133,433
1983	421,861	2,880,880	160,061	925,152
1982	412,605	2,095,059	135,656	803,084
1981	339,701	1,994,045	116,243	770,691
1980	345,159	1,760,311	119,093	712,176
1979	272,478	1,337,867	108,108	566,486
1978	171,472	977,390	117,261	564,025
1977	138,779	674,466	90,716	340,185
1976	107,334	485,150	75,224	355,810
1975	82,207	362,533	45,879	183,975
1974	116,720	414,356	45,635	157,441
1973	90,424	323,718	20,133	68,452
1972	53,288	215,666	3,562	13,322
1971	43,652	161,076	---	---
Average:				
1981-85	419,797	2,664,061	152,838	991,672
1976-80	207,044	1,047,037	102,080	507,736
1971-75	78,258	295,470	28,802	105,798

*Values represent total amounts received for all grades of seedless cucumbers.

Table 10. - Average Value Received per Dozen for Greenhouse Seedless Cucumbers, Districts 2, 3 and 4 - 1971 to 1987.

Year	Spring	Fall	Spring & Fall
	- dollars per dozen -		
1987	8.38	9.24	8.63
1986	7.82	7.69	7.78
1985	7.28	7.20	7.26
1984	6.44	6.74	6.52
1983	6.83	5.78	6.54
1982	5.32	5.92	6.80
1981	5.87	6.63	6.06
1980	5.10	5.98	5.33
1979	4.91	5.24	5.00
1978	5.70	4.81	5.34
1977	4.86	3.75	4.42
1976	4.52	4.73	4.61
1975	4.41	4.01	4.27
1974	3.55	3.45	3.52
1973	3.58	3.40	3.55
1972	4.05	3.74	4.03
1971	3.69	---	---
Average:			
1981-85	6.35	6.49	6.38
1976-80	5.06	4.97	5.03
1971-75	3.82	3.67	3.80

*Values represent average gross values received for all grades marketed of seedless cucumbers.

Table 11. - Average Production per Plant for Greenhouse Tomatoes and Cucumbers, District 1 - 1969 to 1987.

Year	Tomatoes/Plant		Cucumbers		
			Regular	Seedless	
	Spring	Fall	Spring	Spring	Fall
	- lbs/plant -			- number/plant -	
1987	18.1	[b]	No Crop	32.6	[b]
1986	18.0	3.3	No Crop	32.7	3.8
1985[a]	--	3.8	--	--	3.9
1984	17.2	3.4	18.3	31.4	5.5
1983	15.4	3.0	20.3	31.6	3.8
1982	15.7	4.0	21.9	29.6	3.0
1981	14.3	4.1	21.6	29.4	4.7
1980	13.5	3.9	21.4	27.2	3.3
1979	12.9	3.8	23.9	26.8	3.1
1978	12.1	3.4	20.0	24.0	6.4
1977	11.6	2.7	20.1	24.6	4.9
1976	12.5	3.3	21.7	24.2	4.4
1975	10.0	2.8	18.3	22.6	---
1974	10.3	3.0	19.2	17.2	---
1973	8.9	2.9	19.0	22.2	---
1972	9.2	2.9	21.7	---	---
1971	9.3	3.6	22.9	---	---
1970	9.3	2.5	23.9	---	---
1969	10.2	3.4	25.2	---	---
Average:					
1979-83	14.4	3.8	21.8	28.9	3.6
1974-78	11.3	3.0	19.9	22.5	---
1969-73	9.4	3.1	22.5	---	---

[a] Spring tomato and cucumber information not available because of hail storm that either destroyed or greatly reduced many crops on May 30, 1985.
[b] Yields and dollars obtained per plant no longer shown, due to overlap of spring and fall crops. The figure if shown would be very misleading.

Table 12. - Average Gross Returns per Plant for Greenhouse Tomatoes and Cucumbers, District 1 - 1969 to 1987.

Year	Tomatoes		Cucumbers		
			Regular	Seedless	
	Spring	Fall	Spring	Spring	Fall
	- dollars/plant -			- dollars/plant -	
1987	14.37	[b]	No Crop	19.50	[b]
1986	13.16	2.17	No Crop	18.75	1.84
1985[a]	--	1.83	--	--	2.12
1984	13.71	1.70	5.78	16.50	2.48
1983	12.10	1.51	7.67	17.45	1.39
1982	10.99	1.90	5.97	13.17	1.34
1981	8.63	2.30	5.95	13.52	2.11
1980	8.04	1.82	5.21	11.27	.89
1979	7.63	1.79	5.64	10.44	.80
1978	6.73	1.50	5.17	10.67	2.31
1977	5.64	1.28	4.41	9.05	1.32
1976	5.41	1.51	4.03	7.97	1.60
1975	5.29	1.15	4.01	8.10	---
1974	4.15	1.20	3.53	5.22	---
1973	3.38	.76	2.91	6.57	---
1972	3.02	.82	3.22	---	---
1971	3.01	.97	3.35	---	---
1970	2.69	.61	3.24	---	---
1969	3.21	.97	2.61	---	---
Average:					
1979-83	9.48	1.86	6.09	13.17	1.31
1974-78	5.44	1.33	4.23	8.20	---
1969-73	3.06	.83	3.07	---	---

N.B.: Gross returns represent the average values received for all grades marketed for tomatoes and cucumbers.

[a] Spring tomato and cucumber information not available because of hail storm that either destroyed or greatly reduced many crops on May 30, 1985.

[b] Yields and dollars obtained per plant no longer shown, due to overlap of spring and fall crops. The figures if shown would be very misleading.

Table 13. - Average Production and Gross Returns per Square Foot for Greenhouse Tomatoes, District 1 - 1969 to 1987[a].

Year	Spring Tomatoes		Fall Tomatoes/sq. ft.	
	Yield	Gross Returns	Yield	Gross Returns
	-lbs/sq ft.-	-$/sq ft.-	-lbs/sq ft.-	-$/sq ft.-
1987	4.2	3.30	[c]	[c]
1986	4.1	3.02	.8	.50
1985[b]	--	--	.9	.42
1984	4.0	3.15	.8	.39
1983	3.5	2.78	.7	.38
1982	3.5	2.52	.9	.47
1981	3.3	1.98	1.0	.57
1980	3.1	1.85	1.0	.46
1979	3.0	1.75	.9	.45
1978	2.8	1.54	.8	.37
1977	2.7	1.29	.7	.32
1976	2.9	1.24	.8	.38
1975	2.5	1.32	.7	.28
1974	2.3	.94	.7	.30
1973	2.1	.81	.7	.19
1972	2.2	.72	.7	.20
1971	2.2	.72	.9	.23
1970	2.2	.64	.6	.15
1969	2.4	.77	.8	.23
Average:				
1979-83	3.3	2.17	.9	.47
1974-78	2.6	1.27	.8	.33
1969-73	2.2	.73	.7	.20

[a] Gross returns represent the average values received for all grades marketed for tomatoes.

[b] Spring tomato and cucumber information not available because of hail storm that either destroyed or greatly reduced many crops on May 30, 1985.

[c] Yields and dollars obtained per square foot no longer shown, due to overlap of spring and fall crops. The figures if shown would be very misleading.

Table 14. - Average Spring Production and Gross Returns per Square Foot for Greenhouse Cucumbers, District 1 - 1969 to 1987[a].

	Regular Cucumbers SPRING		Seedless Cucumbers SPRING[b]	
	Yield	Gross Returns	Yield	Gross Returns
	-no/sq ft-	-$/sq ft-	-no/sq ft-	-$/sq ft-
1987	No Crop grown		5.0	3.00
1986	No Crop grown		5.0	2.88
1985[c]	--	--	--	--
1984	4.2	1.33	4.8	2.54
1983	4.7	1.76	4.0	2.18
1982	5.0	1.37	3.7	1.65
1981	5.0	1.37	3.7	1.69
1980	4.9	1.20	3.4	1.41
1979	5.3	1.57	3.4	1.30
1978	4.6	1.19	3.0	1.33
1977	4.6	.99	3.1	1.13
1976	5.0	.93	3.0	.99
1975	4.4	.91	2.8	1.01
1974	4.4	.80	2.0	.84
1973	4.1	.62	3.4	1.01
1972	4.6	.69	---	---
1971	4.9	.72	---	---
1970	5.1	.69	---	---
1969	5.4	.56	---	---
Average:				
1979-83	5.0	1.45	3.6	1.65
1974-78	4.6	.96	2.8	1.06
1969-73	4.8	.66	---	---

[a]Gross returns represent the average values received for all grades marketed for cucumbers.
[b]Based on 6.5 sq. ft. per plant.
[c]Spring cucumber information not available because of hail storm that either destroyed or greatly reduced many crops on May 30, 1985.

Table 15. - Distribution of Fuel Used by District*, Greenhouse Vegetable Production, Spring 1983, and 1983; and 1985 to 1988 for District 1 only

Fuel Types Used	District 1 Production area	District 1 % of total	District 2 Production area	District 2 % of total	District 3 Production area	District 3 % of total	District 4 Production area	District 4 % of total	ALL DISTRICTS Production area	ALL DISTRICTS % of total
	sq. ft.	%	sq. ft.	%	sq. ft.	%	sq. ft.	%	sq. ft.	%
SPRING 1983										
Light Oil	744,900	7	272,400	55	582,900	41	311,530	44	1,911,730	15
Heavy Oil	1,786,060	18	31,000	6	175,000	12	249,500	36	2,241,560	18
Natural Gas	7,464,945	74	191,000	38	534,894	38	73,750	11	8,264,589	65
Coal & Propane	24,500	1	3,640	1	127,635	9	65,000	9	220,775	2
TOTAL	10,020,405	100%	498,040	100%	1,420,429	100%	699,780	100%	12,638,654	100%
SPRING 1985										
Light Oil	628,400	6								
Heavy Oil	1,822,060	17								
Natural Gas	7,839,745	76								
Wood & Propane	24,500	1								
TOTAL	10,314,705	100%								
SPRING 1986										
Light Oil	669,100	6								
Heavy Oil	1,891,060	17								
Natural Gas	8,302,945	76								
Wood & Propane	24,500	1								
TOTAL	10,887,605	100%								
SPRING 1987										
Light Oil	658,300	6								
Heavy Oil	1,785,910	17								
Natural Gas	8,394,195	77								
Wood & Propane	24,500	X								
TOTAL	10,862,905	100%								
SPRING 1988										
Light Oil	578,600	5								
Heavy Oil	1,552,480	14								
Natural Gas	9,040,225	81								
Wood & Propane	25,000	X								
TOTAL	11,196,305	100%								

Source: Information obtained from the Ontario Greenhouse Vegetable Producers' Marketing Board.

* For a list of districts, see footnote for Table 1.

x Less than 1/2 of 1 percent.

N.B. Fuel used as main source of heat, depending on prices, some growers switch to other fuels. Surveys on fuel type used were not conducted in 1984, and, for districts 2, 3 and 4, in 1985 and 1987